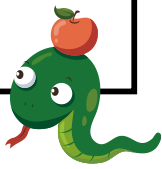


# PYTHON 2.7 PIT: FUNCTIONS with Numbers



NAME \_\_\_\_\_

Now you can create a Function you will want it to do something more exciting. This requires the data to be pulled into the definition from a variable.

Discuss what you think this code does, *Look up any words you are not sure of*

```
number = raw_input("Please enter a number ")
number2 = raw_input("Please enter a number to times by ")

for digit in number:
    print digit
    total = float(digit) * float(number2)
    print total
```

**Make the code above into a function, what did you have to do? (Hint: 2 things)**

In the example above you may want to use the variables outside of the function or even within another function. To do this,

1. Remove the variables
2. Add the variable names to the function.

```
def times_the_numbers(number, number2):
    for digit in number:
        print digit
        total = float(digit) * float(number2)
        print total

number = raw_input("Please enter a number ")
number2 = raw_input("Please enter a number to times by ")

times_the_numbers(number, number2)
```

The code looks better now, however, the input questions can be added to a new function, and the **times\_the\_numbers** can be called within this function. Yes, you can run a function within another function.

```
def times_the_numbers(number, number2):
    for digit in number:
        print digit
        total = float(digit) * float(number2)
        print total

def start():
    number = raw_input("Please enter a number ")
    number2 = raw_input("Please enter a number to times by ")
    times_the_numbers(number, number2)

def start()
```

**Now create your own functions, stuck for ideas?** How about a currency converter?, BMI calculator, VAT calculator, area of a triangle, the number of days you have been alive?